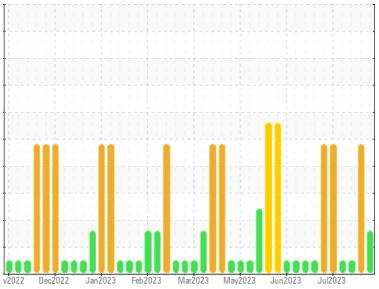
OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Machine Id
SJNM02BE
Component
Biogas Engine
Fluid
CHEVRON HDAX 6500 LFG GAS ENGINE OIL (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0764421**	WC0764435	WC0764422
Sample Date		Client Info		**11 Aug 2023**	04 Aug 2023	28 Jul 2023
Machine Age	hrs	Client Info		**109891**	109727	109559
Oil Age	hrs	Client Info		**689**	525	357
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	SEVERE	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	**<1.0**	<1.0	<1.0
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	**3**	0	<1
Chromium	ppm	ASTM D5185m	>4	**0**	<1	<1
Nickel	ppm	ASTM D5185m	>2	**0**	<1	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>5	**0**	<1	0
Aluminum	ppm	ASTM D5185m	>6	**<1**	2	<1
Lead	ppm	ASTM D5185m	>9	**4**	4	1
Copper	ppm	ASTM D5185m	>6	**2**	2	2
Tin	ppm	ASTM D5185m	>4	**4**	4	1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**5**	9	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**8**	12	10
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**19**	25	25
Calcium	ppm	ASTM D5185m		**1982**	2524	1966
Phosphorus	ppm	ASTM D5185m		**308**	375	297
Zinc	ppm	ASTM D5185m		**372**	474	358
Sulfur	ppm	ASTM D5185m		**2604**	3046	2537

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	▲ **188**	⬢ 218	121
Sodium	ppm	ASTM D5185m		**<1**	<1	3
Potassium	ppm	ASTM D5185m	>20	**2**	3	3

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0**	0	0
Nitration	Abs/cm	*ASTM D7624	>20	**7.0**	6.8	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	**20.4**	19.6	17.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**14.2**	13.0	10.9
Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	**1.25**	1.10	0.747
Base Number (BN)	mg KOH/g	ASTM D2896	4.5	**4.61**	3.98	4.95

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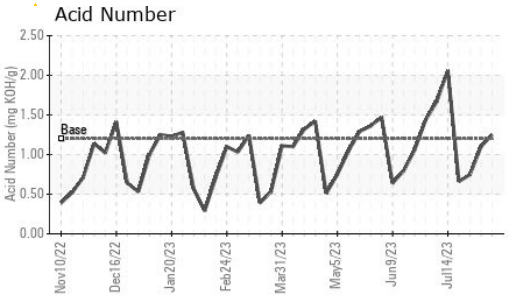
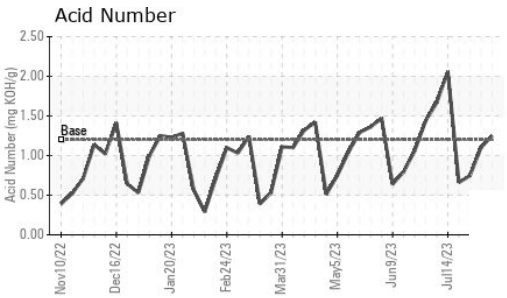
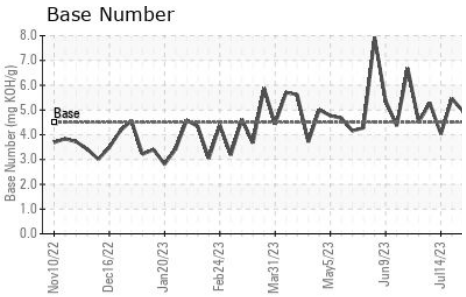
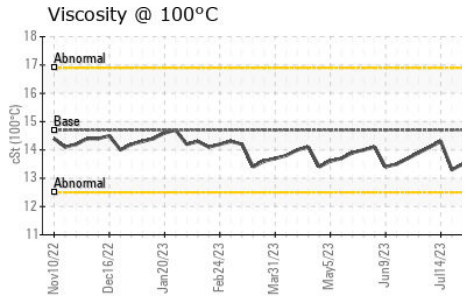




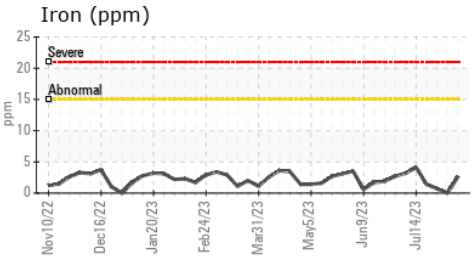


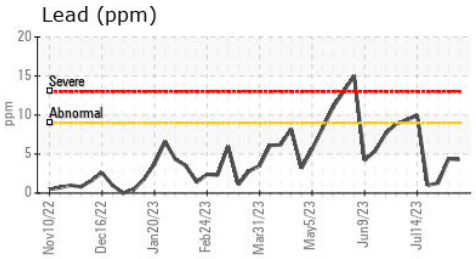


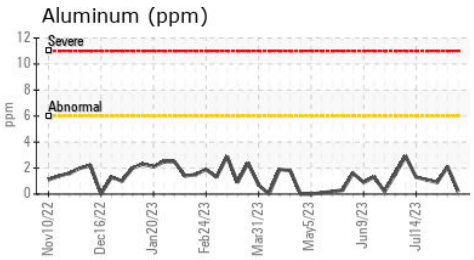
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

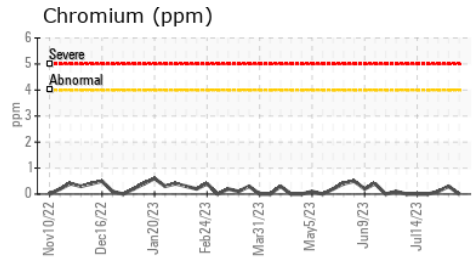
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.7	**13.8**	13.6	13.5

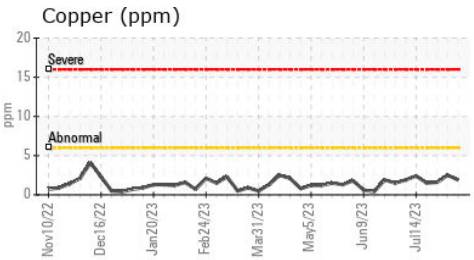
GRAPHS

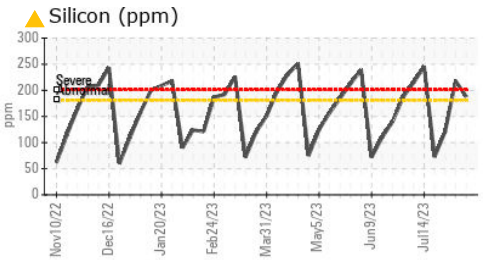


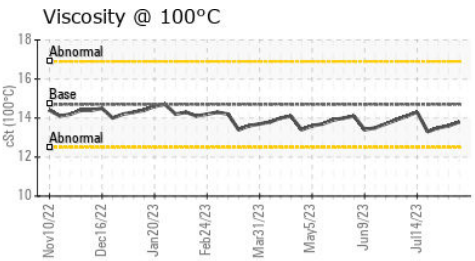


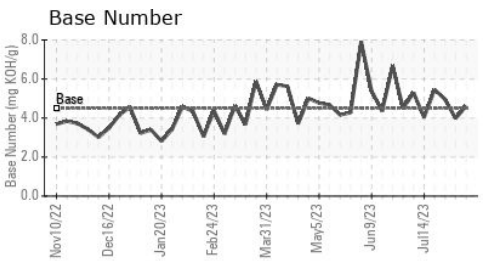












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0764421
Lab Number : 05925002
Unique Number : 10604949
Test Package : MOB 2

Received : 15 Aug 2023
Diagnosed : 16 Aug 2023
Diagnostician : Angela Borella

Certificate L2367

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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